

FIG. 1

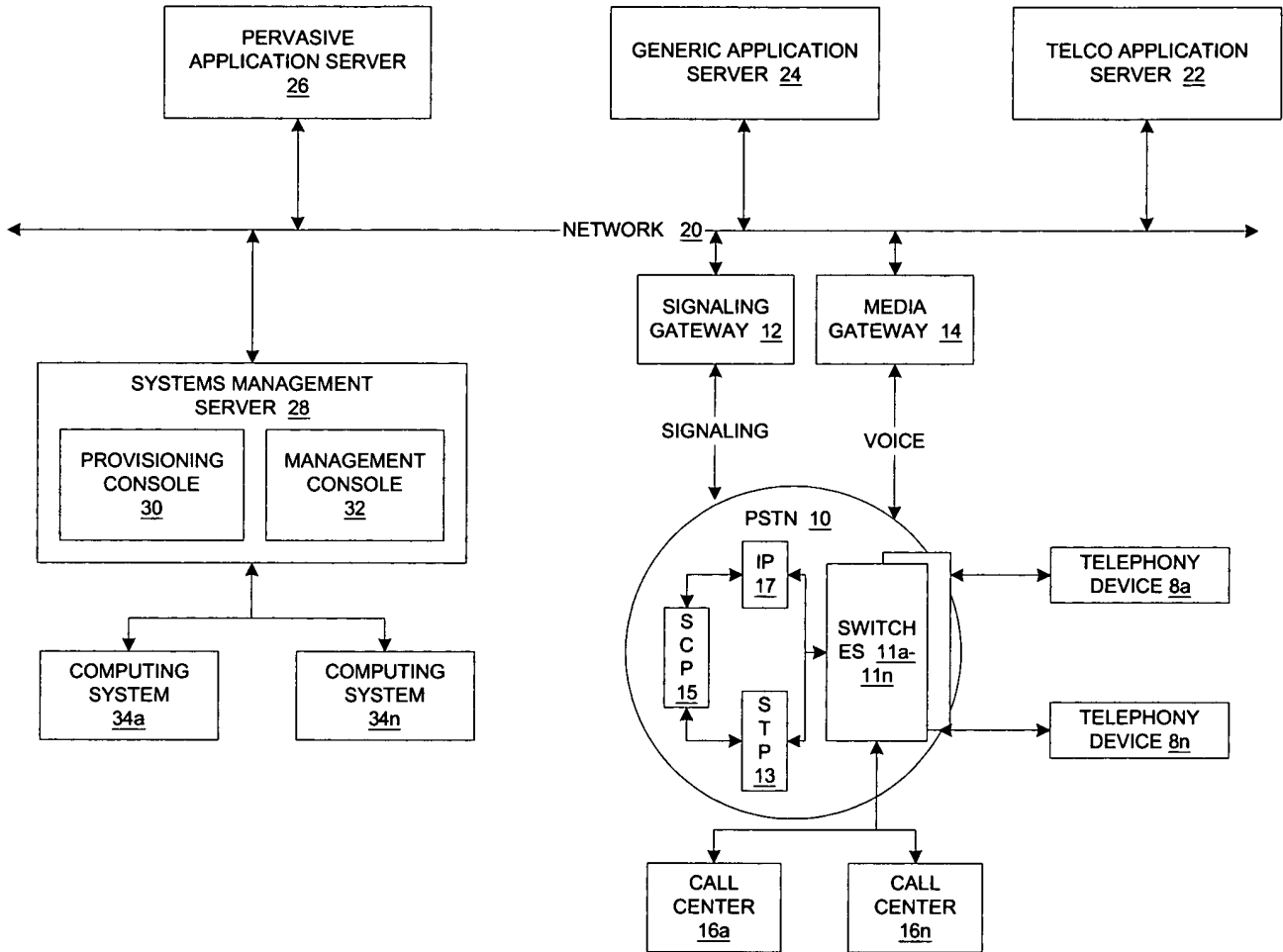


FIGURE 1

FOI b7E b7C b7D

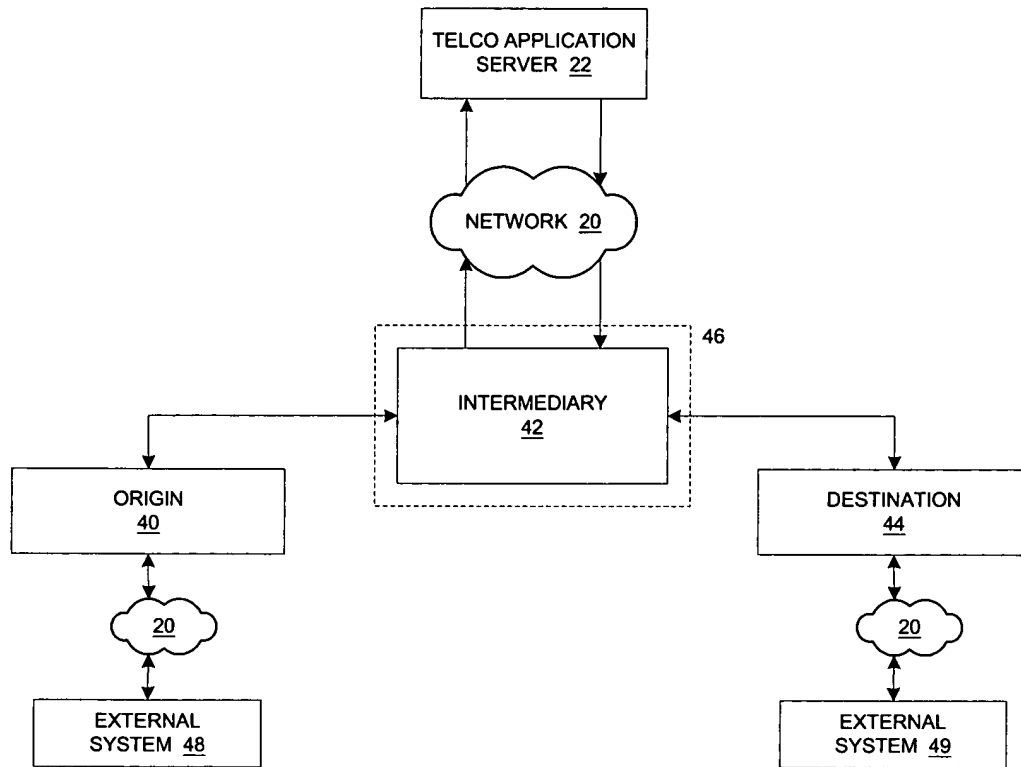


FIGURE 2

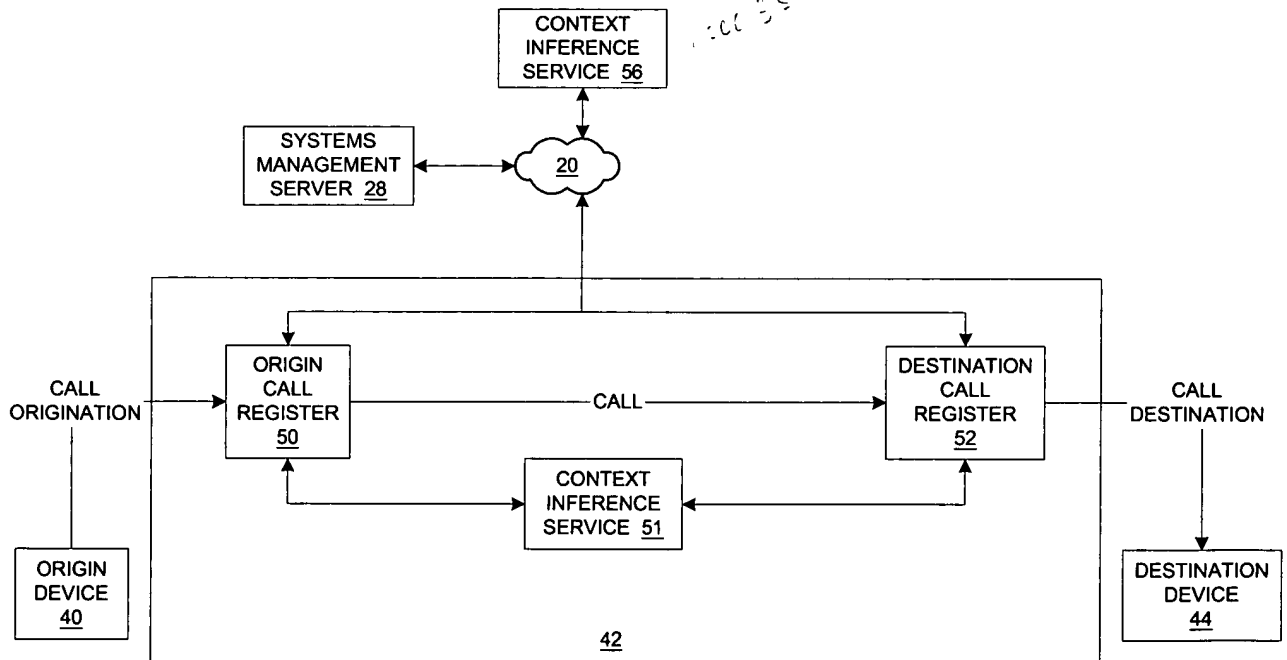


FIGURE 3

The diagram illustrates a Context Inference Service (56) at the center, which receives input from several data sources and outputs a context inference result. The data sources are represented by boxes with lines connecting them to the central service box.

- Authenticating Caller Identity (60):** Provides caller identity information including VID NAME (JANE SMITH), VID ID (333-00-2222), and BUSINESS PROFILE (GEORGE JONES'S SECRETARY).
- Caller Device Identity (62):** Provides device information including DEVICE NAME (BUSINESS PHONE), DEVICE NUMBER (512-222-3333), and DEVICE TYPE (WIRELINE).
- Call Origination Location (64):** Provides location information including PSTN OFFICE SWITCH (512-222), COUNTRY (US), STATE (TEXAS), CITY (AUSTIN), and BUILDING (XYZ CORP).
- Filtering Preferences (66):** Provides filtering rules including "ON BEHALF OF" blocks (JON JOE 111-333-2020, TTT CORP 242-242-0000, TOM'S CARPETS 333-220-0000), PUBLISH ALL TO PROFILE, and BLOCK FROM ANY DATA MINING SERVICE.
- On Behalf of Context to Callee (69):** Provides context information including [ON BEHALF OF] JANE SMITH CALLING ON BEHALF OF GEORGE JONES and [AUTHORIZATION] INFERRED, CALLER VERIFIED.

The central **Context Inference Service (56)** processes this information to generate a context inference result, which is shown in the box on the right:

- Caller Billing Information (68):**
 - (1) WIRELINE PROVIDER A
PLAN C
CALL WAITING
CALL FORWARDING
 - (2) XYZ CORP DEBIT ACCOUNT #1
LONG DISTANCE CHARGE FOR
CALLS ON BEHALF OF GEORGE JONES
 - (3) XYZ CORP DEBIT ACCOUNT #2
LONG DISTANCE CHARGES FOR
CALLS FROM JANE SMITH

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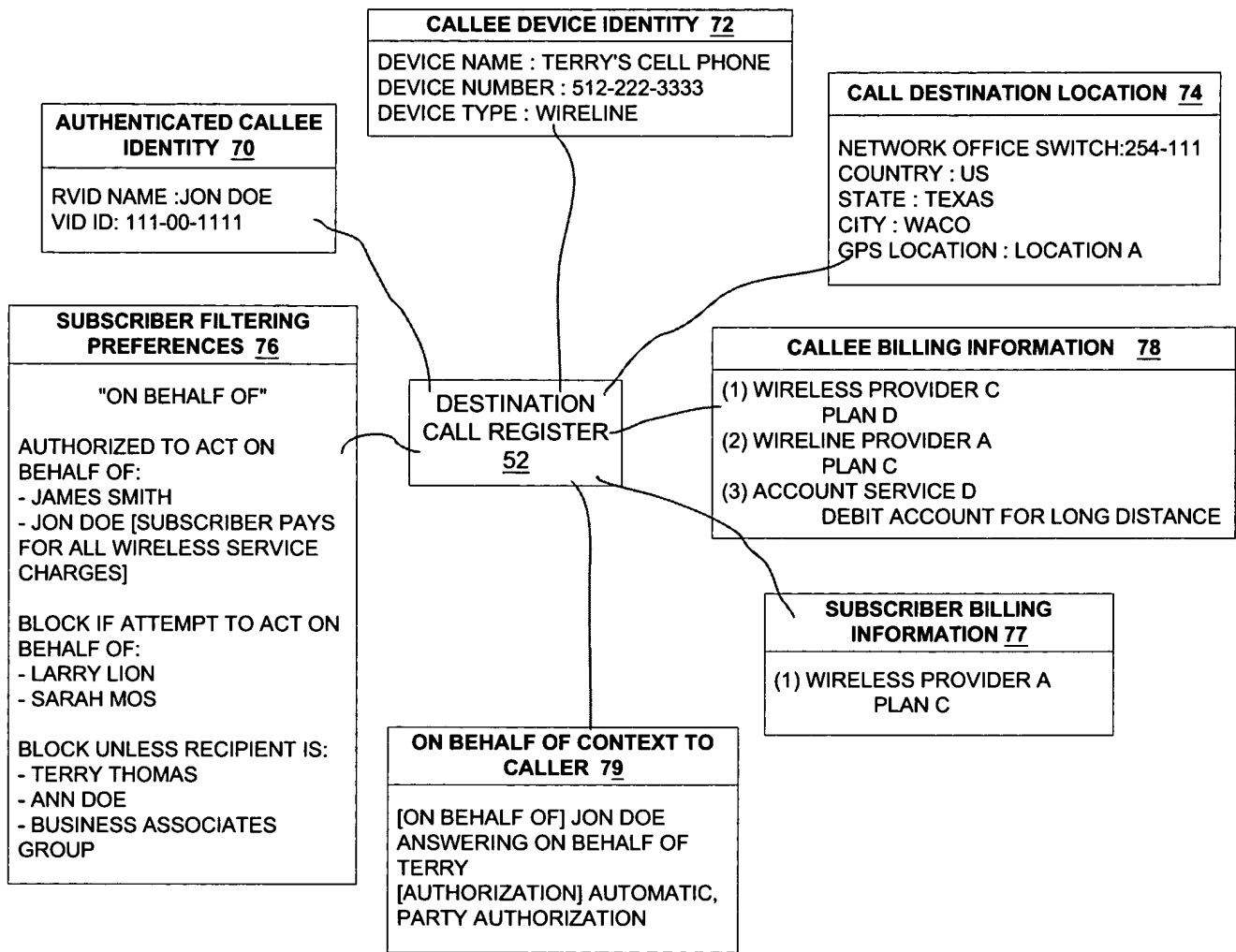


FIGURE 5

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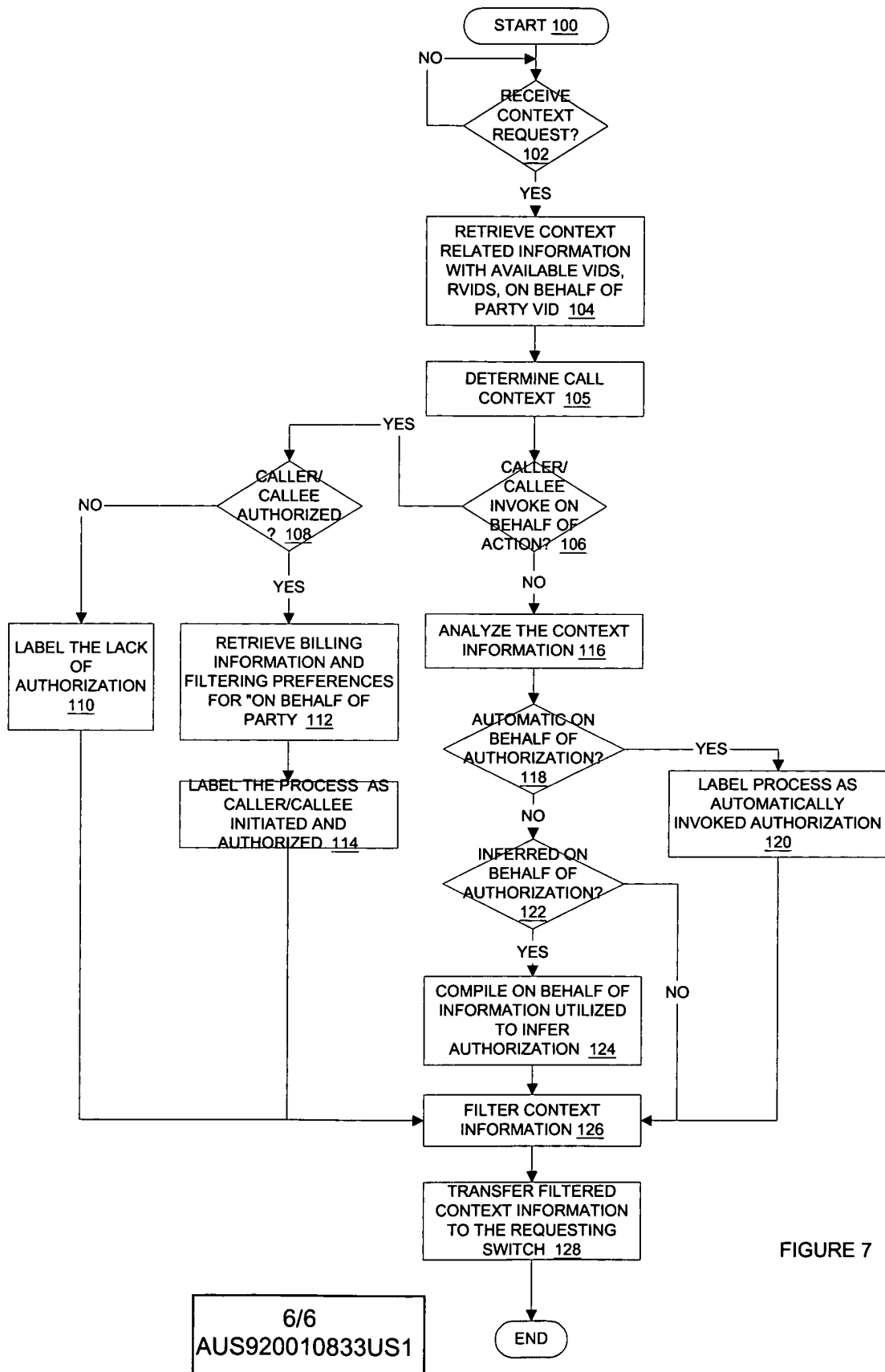


FIGURE 7